H2478



Geotechnical Laboratory PO Box 4339 1570 Bear Creek Road Oak Ridge TN 37830 865/482-6497

#### CERTIFICATE OF ANALYSIS

Steven Trent Fluor Hanford, Inc. 825 Jadwin Avenue Richland, Washington 99352 January 19, 2003

This is the Certificate of Analysis for the following samples:

Shaw Project ID:

Shaw Project Number:

Client Sampling Authorization Form No.

Client Sample Data Group:

Date Received by Lab: Number of Samples:

Sample Type:

Eberline - Hanford 100846.04000000

F03-025 H2478

January 2, 2004

One (1) Soil



# I. <u>Introduction/Case Narrative</u>

Two soil samples were received by the Shaw Geotechnical Laboratory on January 2, 2004. Each sample was designated for a separate sample data group (SDG). Samples were submitted for determination of particle-size distribution, bulk density and moisture content. The sample numbers received were B17RY4 and B183N3.

Please see Appendix A, Sample Number Cross Reference List; Appendix B, Analysis Results; and Appendix C, Chain-of-Custody/Sample Receipt Records.

"I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."

Reviewed and Approved:

Ralph Cole

Laboratory Manager, Geotechnical Services

0000001



**EDMC** 

Page 2 of 17 January 19, 2004 Steven Trent Fluor Hanford, Inc. Shaw Project Name: Eberline Hanford Shaw Project No. 100846.04000000 SAF No. F03-025 SDG No. H2478

Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# II. Analytical Results/Methodology

REFERENCES: United States Army Corps of Engineers (USACE), Engineer Manual 1110-2-1906, Laboratory Soils Testing, appendix II, 1970; United States Environmental Protection Agency, SW846, Test Methods for Examining Solid Waste, Physical/Chemical Methods, 3rd ed., Nov 1986 (EPA SW-846). Annual Book of ASTM Standards, Section 4, Construction, Volume 04.08, Soil and Rock (II), and Volume 04.09, Soil and Rock (III), 2003. Shaw Environmental and infrastructure, Standard Operating Procedures.

Particle-Size Distribution of Soils	ASTM D 422
Moisture Content of Soil and Rock	ASTM D 2216
Bulk Density	ASTM D 2937
	USCAE 1110-2-0906

### III. Quality Control

Quality control checks such as duplicates and spikes (QC samples), are not normally applicable to geotechnical testing. This is due largely to the inability of obtaining samples with known characteristics, the heterogenous nature of the samples, and quality control procedures built-in to the analytical method.

QC measures to ensure accuracy and precision of test results include the following:

- 100% verification of all numerical results raw data entries, transcriptions and calculations entered by lab technicians are checked, recalculated and verified. Most data calculations are performed by computer programs.
- Data validation through test reasonableness summaries of all test results for individual reports are reviewed to determine the overall reasonableness of data and to determine the presence of any data that may be considered outliers.
- Quality control procedures are built into most standardized geotechnical procedures. For example, liquid limit and plastic limit analyses call for re-analyses and specify acceptance criteria.
- Routine instrument calibration instruments, gauges and equipment used in testing are calibrated on a routine basis. All instrument calibration follows ASTM or manufacturer guidelines.

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- Maintenance of all past calibration records calibration records and certification documents of all instruments, gauges and equipment are updated routinely and maintained in the Quality Control Coordinators Quality/Operations files.
- Certified and trained personnel all technicians are certified by the National Institute
  for Certification of Engineering Technicians (NICET) in geotechnical soil testing, and
  are trained in the application of standard laboratory procedures for geotechnical
  analyses as well as the quality assurance measures implemented by Shaw.
- Quantitative analyses frequently used in geotechnical/physical testing programs do
  not use QC tools common to wet chemistry or radiochemistry laboratories. Measures
  not employed in the analysis of samples reported in this report include: laboratory
  control samples (LCS), blanks, matrix spikes (MS), duplicate analyses, dilutions,
  digestions, correction factors, surrogate sample analyses, detection limit
  determinations, control charts, and/or tentatively identified compounds (TICs).

# IV. Data Qualification

Two moisture content results are reported. One data page reports the moisture content of a sample aliquot submitted for "moisture content" determination. The second moisture result is reported on the grainsize and density report sheets, and was determined using excess material from those test specimens.

The bulk density test method requested was ASTM D 2937, Density of Soil In-Place by the Drive-Cylinder Method. This method covers field procedures used to procure undisturbed, near-surface soil samples, as well as analysis for bulk density. The data results presented here were derived form laboratory tests performed on client-supplied core (tube) samples. Shaw Environmental was not involved in sampling activities.

Appendix A
Sample Cross-Reference List

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January 19, 2004
Steven Trent
Fluor Hanford, Inc.
Shaw Project Name: Eberline Hanford
Shaw Project No. 100846.04000000
SAF No. F03-025

SDG No. H2478

Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# SAMPLE NUMBER CROSS-REFERENCE LIST

LAB SAMPLE NO.	CLIENT SAMPLE NO.	MATRIX
BC0253	B17RY4	Soil

# Appendix B Sample Test Results

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Shaw Project Name: Eberline Hanford Shaw Project No. 100846,04000900

SAF No. F03-025 SDG No. H2478 Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# **MOISTURE CONTENT**

PROJECT NAME

**Eberline - Hanford** 

PROJECT NUMBER

100846.04000000

IT LAB SAMPLE NO.	CLIENT SAMPLE NO.	MOISTURE, % ASTM D 2216	MOISTURE, % SW846	SOLIDS, % SW846
BC0253	. B17RY4	2.9	2.9	97.1
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	,			

ASTM D 2216 results are based on dry sample weight. SW846 results are based on wet sample weight. Solids content is determined by subtracting the SW846 moisture (%) from 100. Page 6 of 17 January 19, 2004 Steven Trent Fluor Hanford, Inc. Shaw Project Name: Eberline Hanford

Shaw Project No. 100846.04000000

SAF No. F03-025 SDG No. H2478

**Shaw Geotechnical** Laboratory Oak Ridge TN 865/482-6497

# **BULK DENSITY/DRY DENSITY** EM-1110-2-1906, APPENDIX II

PROJECT NAME:

PROJECT NUMBER:

Eberline - Hanford

100846.04000000

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	AVERAGE LENGTH, inches	AVERAGE DIAMETER, inches	WET WEIGHT, grams	MOISTURE CONTENT, %	BULK DENSITY, pcf	DRY DENSITY pcf
BC0253	B17RY4	5.9978	3.8773	2119.42	2.8	114.0	111.0
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			-				_
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		-					
							-
							_
	- G						
				107			
						11.40	
		-					

Moisture content calculated by ASTM D 2216 based on sample dry weight.

Bulk density is the weight of wet sample divided by the volume of the wet sample (as-received).

Dry density is the weight of the dry sample solids divided by the volume of the original sample.

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Fluor Hanford, Inc.
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Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# PARTICLE-SIZE ANALYSIS ASTM D 422

**Project Name** 

Eberline - Hanford

Client Sample No.

B17RY4

Project No.

100846.04000000

Lab Sample No.

BC0253

Specific Gravity = 2.65 assumed for calculations

Moisture Content = 2.8%

- 14

based on dry sample weight

#### SIEVE ANALYSIS

С	Sieve No.	Diameter mm	Percent Finer
0	3"	75.000	100.0%
Α	.1.5"	37.500	100.0%
R	0.75"	19.000	100.0%
S	0.375"	9.500	100.0%
-	#4	4.750	100.0%
	#10	2.000	100.0%

	Sieve No.	Diameter	Percent
F	#20	0.850	99.0%
, L	#40	0.425	65.9%
N	#60	0.250	39.2%
E	#100	0.149	26.9%
	#140	0.106	20.6%
	#200	0.075	15.8%

#### HYDROMETER ANALYSIS

	Diameter	Percent
н	mm	Finer
Y	0.04922	12.3%
R	0.03533	10.0%
0	0.02264	8.2%
M	0.01323	6.4%
E	0.00942	5.0%
E.	0.00671	4.1%
R	0.00438	2.7%
	0.00293	2.3%
	0.00137	1.8%

0.0% Gravel

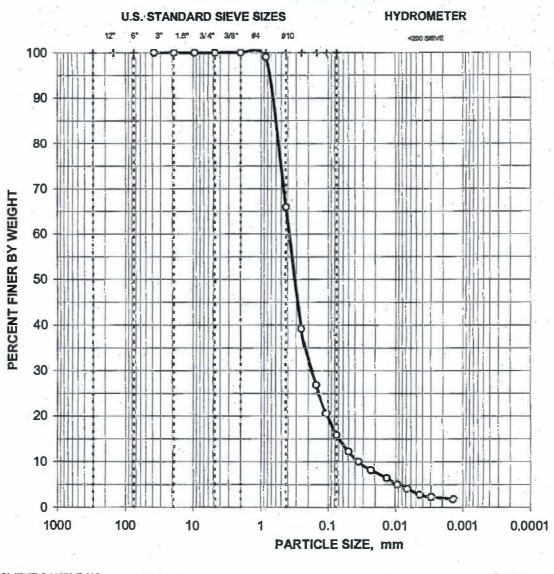
84.2% Sand

15.8% Silt/Clay

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January 19, 2004
Steven Trent
Fluor Hanford, Inc.
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Shaw Project No. 100846.04000000
SAF No. F03-025
SDG No. H2478

Shaw Geotechnical Laboratory Oak Ridge TN 865/482-6497

# Eberline - Hantoro



CLIENT SAMPLE NO .: **B17RY4** BC0253 LAB SAMPLE NO .: GRAVEL B 0 C L В Silt/Clay BLE COARSE E COARSE R DIUM S

Appendix C Chain-of-Custody and Request-for-Analysis Records

FLU	OR Hanford Inc.	CE	NTRAL PLATEAU (	CHAIN O	FCUSTODY	//SAMPLE	E ANALY	SIS REQUES		F03-025	4 1	Page 1	of Ţ
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8			No. of Container(s)	1	1					- 1			
183			Volume	200tnL	1000mL		4						
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SECTION	Don Huskey	SHAW E+I			BTECH					1	-5-04	1/09	00
FINAL SAMPLE DISPOSITION	Disposal Method		*,			Dispose	ed By	1 1			Dai	te/Time	

PAGE 1 Eberline Srvces CHAIN OF CUSTODY ORD # 83-12-193 12/31/03 11:28:05 WORK ID: SAF# F03-025 SDG #2478 RCVD: 12/31/03 DUE: 01/21/04 KEEP: 01/20/05 DISP: S STORED DASH SAMPLE IDENTIFICATION TESTS -DIA-S B17RY4 SHAW-LAB | DISPOS E331S E333S DATE RELEASED BY RECEIVED BY TRANSFERRED TO DATE

DATE

PAGE 1 Eberline Srvces
CONTRACT: PO# RSH-SOW-93-0003

PURCHASE ORDER # R3-12-193-SU-SW 12/31/03 11:27:44

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ORDER Eberline Services/Richmond	INVOICE Ebertine Services/Richmo	ond
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2030 Wright Avenue	2030 Wright Avenue	
Richmond, CA 94804-0040	Richmond, CA 94804-9040	
ATJEN Purchasing	ATTEN Purchasing	· /a
PHONE 510-235-2633 x 264	PHONE 510-235-2633	AUTHORIZED BY
		46 at 41

ORDER Shaw Geotechnical Laboratory
TO 1570 Bear Creek Road
Dak Ridge, TN 37830

Please telephone our Sample Control Department immediately if any problems are encountered in the receipt or the analysis of the samples listed below.

ATTEN Ralph R. Cole

This Purchase Order authorizes Shaw to perform all work
Listed on the enclosed COC. Alterations to work requested can
only be made by Eberline Services or the appropriate Hanford
client.

FRACTION	TEST	<u>DESCRIPTION</u>	UNITS	DUE DATE	COST
01,A	E331S	D422 Particle Size-Dry Sve		01/21/04	0.00
	E333S	D2216 Moisture Content	Please Advise	01/21/04	0.00
		TOTA	L CHARGE NOT TO	EXCEED	\$0.00

PAGE 1

CLIENT: VES\_HANFORD CON: KCJ SDA (24) CAT: ENVISU

PROJ: WHC\_FLR

Eberline Srvces WORK SHEET

12/31/03 11:27:53

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# RICHMOND, CA LABORATORY SAMPLE RECEIPT CHECKLIST

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4.	Custody seals on sample containers dated & signed? Yes i	No [ ]	
5.	Packing material is: . Wet [ ]	Dry ! L	*
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7,	Number of containers per sample: (Or see C	CoC	.).
8,	Samples are in correct container Yes I Y	lo [ ]	
·9.	Paperwork agrees with samples? Yes [ 4	No [ ] .	8
10.	Samples have: Tape [ ] Hazard labels [ ] Rad labels [ . ] Approp	riate sample lab	oels [ L]
11,	Samples are: In good condition [   Leaking [ ] Broken Conta	iner[] Miss	ting [ ].
12.	Samples are: Preserved [ ] Not preserved [   ] pHPre	sservative	1 10
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"over 50 years of quality nuclear services"

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# ANALYTICAL RESULTS REPORT

Attention: Project:		e Trent -025: F03-02	25			e e				G	roup #:	WSCF20031698 .
Sample # Client ID		CAS#	Test Performed	× .	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample Receive
Radiochemistry W030001224, B77706 GPP	TRENT	12587-48-1	Gross alpha	. •	SOIL	LA-508-421	U	-0.600	pCVg	1.00	1.6	12/23/03 12/22/03 12/22/03
W030001224 B17705. GPP W030001224 B17705 GPP	TRENT	E.T.C 12587-47-2	Alpha error by LC		SOIL	LA-508-421 LA-508-421		+ 3.6 8.40	pCVg	1.00	1.9	12/29/03 12/22/03 12/22/03 12/23/03 12/22/03 12/22/03
W030001224 B17T05 OPP	TRENT	- ST/C	Bete error by LC	5 ton "	SOIL	LA-608-421		.4- 5.Q ·	· pCl/g ·	1.00	0.0	12/29/03 12/22/03 12/22/03

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting production RQ=Result Qualifier

DF=Dilution Factor

\* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbo

Report WGPP/ver. 1

Ground Water Protection Program